

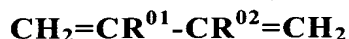
Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in
the application:

Listing of Claims:

1. (currently amended) A photothermographic material comprising, on a same surface of a substrate, a photosensitive silver halide, a non-photosensitive organic silver salt, a reducing agent, a development accelerator, and a binder, wherein said binder is dispersed as a latex and the material comprises, as said binder, a polymer formed by copolymerizing a monomer represented by the following general formula (M) in an amount from 10 to 70 mass%:

General formula (M)



wherein in general formula (M), R^{01} represents a hydrogen atom, an alkyl group having 1 to 6 carbon atoms, or a halogen atom, or a cyano group; and R^{02} represents an alkyl group having 1 to 6 carbon atoms, or a halogen atom or a cyano group, R^{01} and R^{02} each being selected from the group consisting of a hydrogen atom, an alkyl group having 1 to 6 carbon atoms, a halogen atom, and a cyano group, provided that both R^{01} and R^{02} are not hydrogen atoms at the same time.

2. (original) A photothermographic material according to claim 1, wherein said development accelerator is a compound selected from compounds represented by the following general formula (A-1):

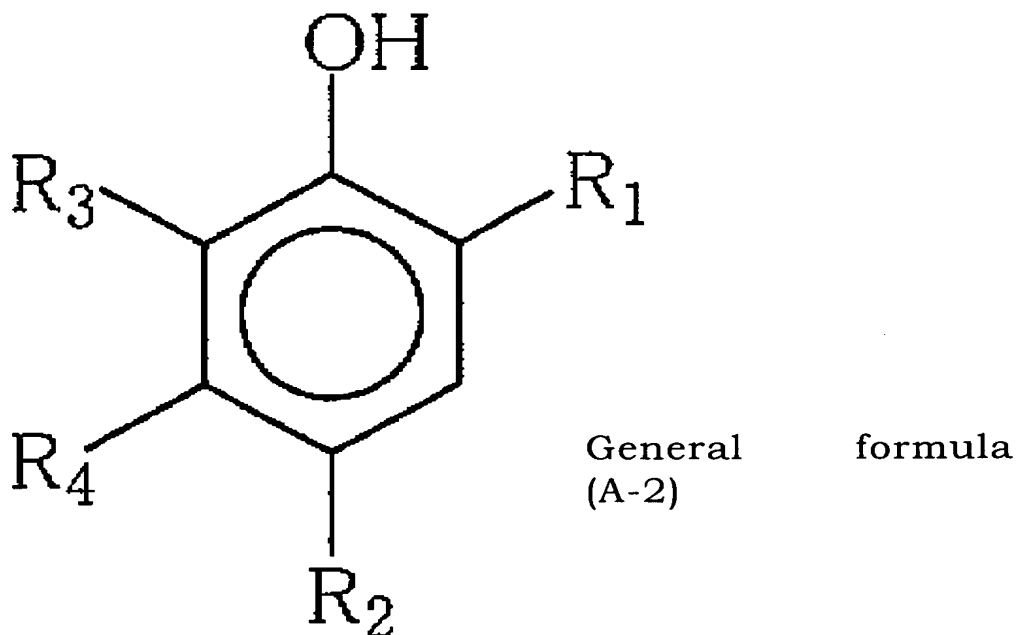
General formula (A-1):



wherein in general formula (A-1), Q_1 represents an aromatic group or a heterocyclic group bonded by a carbon atom thereof to -NHNH- Q_2 ; and Q_2 represents a carbamoyl group, an acyl group, an alkoxycarbonyl group, an aryloxycarbonyl group, a sulfonyl group or a sulfamoyl group.

3. (original) A photothermographic material according to claim 1,

wherein said development accelerator is a compound selected from compounds represented by the following general formula (A-2):



wherein in general formula (A-2), R₁ represents an alkyl group, an acyl group, an acylamino group, a sulfonamide group, an alkoxy carbonyl group, or a carbamoyl group; R₂ represents a hydrogen atom, a halogen atom, an alkyl group, an alkoxy group, an aryloxy group, an alkylthio group, an arylthio group, an acyloxy group or a carbonate ester group; and R₃ and R₄ each independently represent a group that can substitute the benzene ring and may be mutually bonded to form a condensed ring.

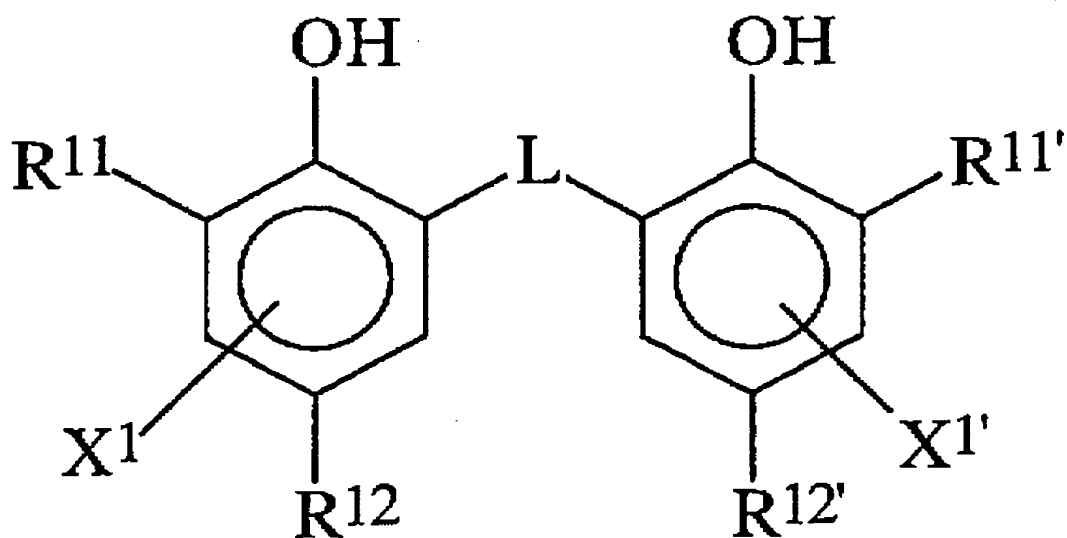
4. (original) A photothermographic material according to claim 1, wherein said non-photosensitive organic silver salt is an organic acid silver salt with a content of silver behenate equal to or higher than 90 mol.%.

5. (original) A photothermographic material according to claim 1, wherein said non-photosensitive organic silver salt is an organic acid silver salt with a content of silver behenate equal to or higher than 95 mol.%.

6. (original) A photothermographic material according to claim 1, wherein said polymer has a glass transition temperature within a range from -30° to 70°C.

7. (original) A photothermographic material according to claim 1, wherein said polymer has a glass transition temperature within a range from -10° to 35°C.

8. (original) A photothermographic material according to claim 1, wherein said reducing agent is a compound represented by the following general formula (R):



General formula (R)

wherein in general formula (R), R^{11} and $R^{11'}$ each independently represent an alkyl group having 1 to 20 carbon atoms; R^{12} and $R^{12'}$ each independently represent a hydrogen atom or a substituent that can substitute the benzene ring; L represents an -S- group or a -CHR¹³- group; R^{13} represents a hydrogen atom or an alkyl group having 1 to 20 carbon atoms; and X^1 and $X^{1'}$ each independently represent a hydrogen atom or a group that can substitute the benzene ring.

9. (original) A photothermographic material according to claim 8, wherein, in the reducing agent represented by general formula (R), R^{11} and $R^{11'}$ each independently represent a secondary or tertiary alkyl group having 3 to 15 carbon atoms.

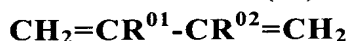
10. (original) A photothermographic material according to claim 1, further comprising a phthalocyanine dye.

11. (original) A photothermographic material according to claim 1, wherein in general formula (M), R^{01} is a hydrogen atom and R^{02} is a methyl group.

12. (original) A photothermographic material according to claim 1, wherein said polymer is formed by copolymerizing a monomer having an acid group in an amount from 1 to 20 mass%.

13. (currently amended) A photothermographic material comprising, on a same surface of a substrate, a photosensitive silver halide, a non-photosensitive organic silver salt, a reducing agent and a binder, the material comprising, as said binder, a polymer latex formed by copolymerizing a monomer represented by the following general formula (M) in an amount from 10 to 70 mass% and having a number-averaged particle size (dn) from 30 to 500 nm:

General formula (M)



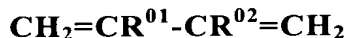
wherein in general formula (M), R^{01} represents a hydrogen atom, an alkyl group having 1 to 6 carbon atoms, or a halogen atom, ~~or a cyano group~~; and R^{02} represents an alkyl group having 1 to 6 carbon atoms, or a halogen atom ~~or a cyano group~~, ~~R^{01} and R^{02} each being selected from the group consisting of a hydrogen atom, an alkyl group having 1 to 6 carbon atoms, a halogen atom, and a cyano group, provided that both R^{01} and R^{02} are not hydrogen atoms at the same time.~~

14. (original) A photothermographic material according to claim 13, wherein the polymer latex has a ratio (dv/dn) of a volume-weighted average particle size (dv) to a number-averaged particle size (dn) within a range from 1.00 to 1.10.

15. (original) A photothermographic material according to claim 13, wherein the polymer latex contains halogen ions in an amount of 500 ppm or less with respect to the latex.

16. (currently amended) A photothermographic material comprising, on a same surface of a substrate, a photosensitive silver halide, a non-photosensitive organic silver salt, a reducing agent and a binder, the material comprising, as said binder, a polymer latex formed by copolymerizing a monomer represented by the following general formula (M) in an amount from 10 to 70 mass%, and emulsion polymerized with a peroxide as a polymerization initiator in an amount of 0.3 to 2 mass% with respect to the monomer:

General formula (M)



wherein in general formula (M), R^{01} represents a hydrogen atom, an alkyl group having 1 to 6 carbon atoms, or a halogen atom, ~~or a cyano group~~; and R^{02} represents an alkyl group having 1 to 6 carbon atoms, or a halogen atom ~~or a cyano group~~, ~~R^{01} and R^{02} each being selected from the group consisting of a hydrogen atom, an alkyl group having 1 to 6 carbon atoms, a halogen atom, and a cyano group, provided that both R^{01} and R^{02} are not hydrogen atoms at the same time.~~

17. (original) A photothermographic material according to claim 16, wherein said polymer latex includes halogen ions in an amount of 500 ppm or less with respect to the latex.

18. (original) A photothermographic material according to claim 13, wherein said polymer latex has a glass transition temperature within a range from -30° to 70°C .

19. (original) A photothermographic material according to claim 13, wherein, in said general formula (M), R^{01} is a hydrogen atom and R^{02} is a methyl group.

20. (original) A photothermographic material according to claim 13, wherein said polymer is formed by copolymerizing a monomer having an acid group in an amount from 1 to 20 mass%.

21. (original) A photothermographic material according to claim 13, comprising halogen ions in an amount of 1000 ppm or less with respect to the organic silver salt.

22. (new) A photothermographic material according to claim 1, wherein R^{01} is selected from a hydrogen atom or an alkyl group having 1 to 6 carbon atoms, and R^{02} is an alkyl group having 1 to 6 carbon atoms.

23. (new) A photothermographic material according to claim 1, wherein R^{01} is selected from a hydrogen atom or a methyl group, and R^{02} is a methyl group.

24. (new) A photothermographic material according to claim 13, wherein R^{01} is selected from a hydrogen atom or an alkyl group having 1 to 6 carbon atoms, and R^{02} is an alkyl group having 1 to 6 carbon atoms.

25. (new) A photothermographic material according to claim 13, wherein R^{01} is selected from a hydrogen atom or a methyl group, and R^{02} is a methyl group.

26. (new) A photothermographic material according to claim 16, wherein R^{01} is selected from a hydrogen atom or an alkyl group having 1 to 6 carbon atoms, and R^{02} is an alkyl group having 1 to 6 carbon atoms.

27. (new) A photothermographic material according to claim 16, wherein R^{01} is selected from a hydrogen atom or a methyl group, and R^{02} is a methyl group.